

CBG85-12

12V 85AH

Deep Cycle Gel Battery



CBG85-12



Physical Specification

Part Number:	CBG85-12
Length:	306 ± 2 mm (12.05 inches)
Width: Container	168 ± 2 mm (6.61 inches)
Height:	208 ± 2 mm (8.20 inches)
Total Height (with terminal):	214 ± 2 mm (8.43 inches)
Approx Weight:	26.5 kg (58.4lbs)

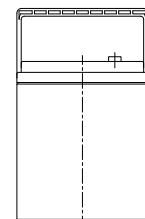
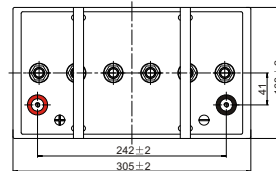
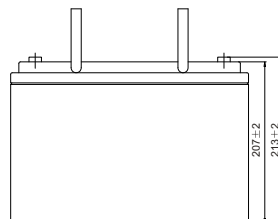
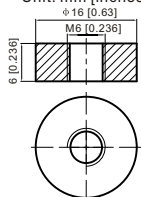
Specifications

	Nominal Voltage	12V
	(C10, 1.80V/cell)	85AH
Terminal Option	T6	
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(20hr, 4.25A, 1.80V/cell)	85.0 Ah
	(10hr, 7.80A, 1.75V/cell)	78.0 Ah
	(5hr, 13.6A, 1.75V/cell)	68.0 Ah
	(3hr, 19.7A, 1.75V/cell)	59.1 Ah
	(1hr, 46.8A, 1.67V/cell)	46.8 Ah
Max Discharge Current (5s)	850 A	
Internal Resistance	Approx. 6.0mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -20°C~55°C (-4°F~131°F) Charge: 0°C~40°C (32°F~104°F) Storage: -20°C~50°C (5°F~122°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 21.25A. Voltage 14.4V~15.0V at 25°C (77°F) Temp.Coefficient -30mV°C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C (77°F)Temp. Coefficient -20mV°C
	Capacity affected by Temperature	40°C (104°F) 103%
		25°C (77°F) 100%
		0°C (32°F) 86%
Design Floating Life at 20°C	20 Years	
Self Discharge	Canbat Deep Cycle Gel batteries may be stored for up to 9 months at 25°C (77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter. Self-discharge is less than 2%	

Dimensions

T6 Terminal

Unit: mm [inches]



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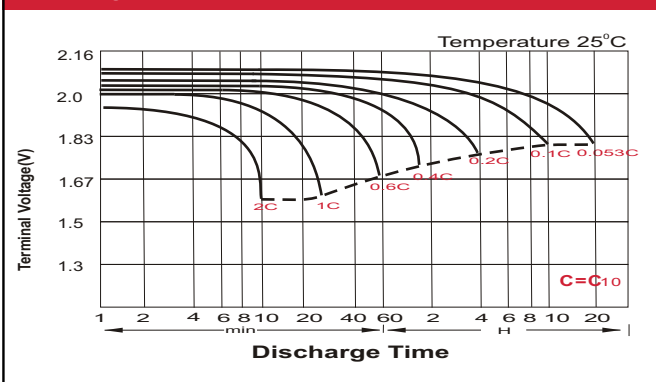
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	71.9	56.4	43.1	36.0	22.9	17.4	14.4	12.5	10.8	9.52	8.59	7.85	7.32	4.08
1.80V/cell	82.4	63.1	47.5	39.8	24.7	18.7	15.3	13.1	11.3	10.0	9.00	8.25	7.64	4.25
1.75V/cell	92.6	69.4	51.3	42.6	26.2	19.7	16.0	13.6	11.7	10.3	9.29	8.50	7.80	4.34
1.70V/cell	99.7	74.3	54.5	45.1	27.8	20.5	16.6	14.0	12.1	10.7	9.56	8.73	7.98	4.39
1.67V/cell	103.8	77.2	56.4	46.8	28.5	21.2	17.0	14.3	12.3	10.8	9.71	8.84	8.07	4.43
1.60V/cell	112.5	82.6	60.6	49.6	29.7	22.0	17.6	14.8	12.6	11.1	9.88	9.03	8.23	4.50

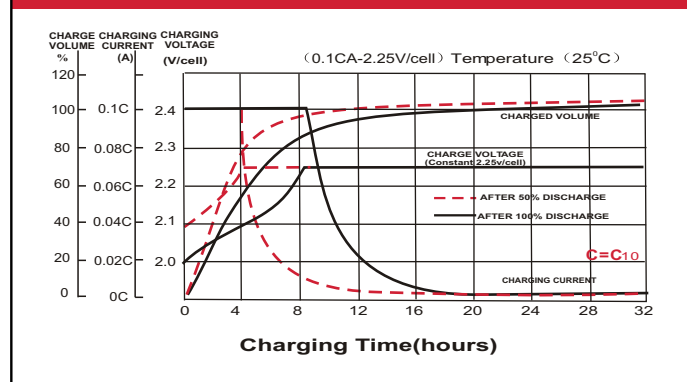
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	137.6	108.8	83.5	70.2	44.7	34.1	28.4	24.6	21.3	18.9	17.1	15.6	14.6	8.14
1.80V/cell	155.6	120.4	91.4	77.1	48.1	36.4	30.0	25.7	22.3	19.7	17.9	16.4	15.2	8.47
1.75V/cell	172.9	131.2	98.1	82.1	50.8	38.4	31.3	26.7	23.0	20.4	18.4	16.9	15.5	8.63
1.70V/cell	184.3	139.3	103.4	86.3	53.6	39.9	32.2	27.4	23.8	21.0	18.9	17.3	15.8	8.73
1.67V/cell	189.6	143.2	106.3	89.1	54.8	41.0	32.9	27.9	24.1	21.3	19.2	17.5	16.0	8.81
1.60V/cell	203.2	151.9	113.4	94.1	56.7	42.4	34.1	28.7	24.6	21.7	19.4	17.8	16.3	8.92

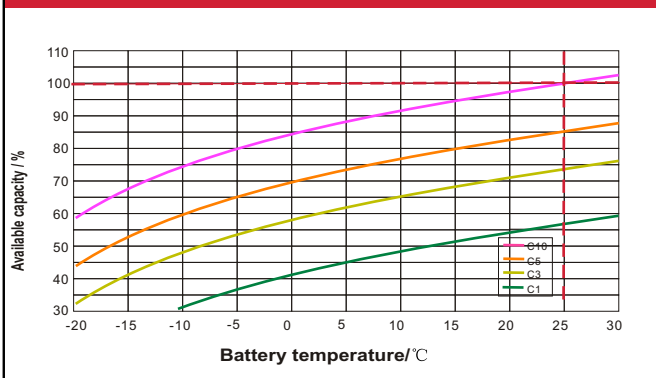
Discharge Characteristics



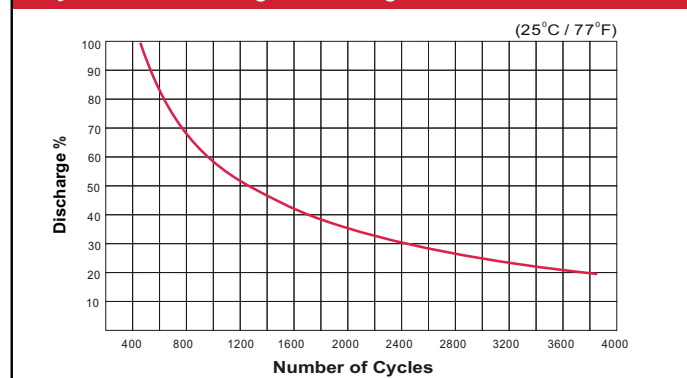
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Cycle Life / Discharge Percentage



Deep Cycle Gel Battery Features

- Ability to deeply discharge
- Maintenance-free
- Spill-free / Spill-proof
- Oxygen recombination technology
- Low self-discharge rate
- Excellent cycle life
- High power and volume ratio
- Unrivalled energy density
- Valve regulated
- Extremely safe operations
- VRLA Gel technology
- High reliability
- Rechargeable lead acid batteries
- Optimum quality
- Developed in Canada